



SHILAP Revista de Lepidopterología

ISSN: 0300-5267

avives@orange.es

Sociedad Hispano-Luso-Americana de  
Lepidopterología  
España

Lastuvka, A.; Lastuvka, Z.

New records of Lepidoptera from the Iberian Peninsula from 2016 (Insecta: Lepidoptera)

SHILAP Revista de Lepidopterología, vol. 45, núm. 178, junio, 2017, pp. 283-297

Sociedad Hispano-Luso-Americana de Lepidopterología

Madrid, España

Available in: <http://www.redalyc.org/articulo.oa?id=45551614014>

- How to cite
- Complete issue
- More information about this article
- Journal's homepage in redalyc.org

redalyc.org

Scientific Information System

Network of Scientific Journals from Latin America, the Caribbean, Spain and Portugal

Non-profit academic project, developed under the open access initiative

# New records of Lepidoptera from the Iberian Peninsula from 2016 (Insecta: Lepidoptera)

A. Laštůvka & Z. Laštůvka

## Abstract

New records of Nepticulidae, Adelidae, Incurvariidae, Gracillariidae, Argylesthiidae, Lyonetiidae, Coleophoridae, Brachodidae and Sesiidae for Portugal and Spain are mentioned. *Ectoedemia atricollis* (Stainton, 1857), *E. occultella* (Linnaeus, 1767), *Nematopogon swammerdamella* (Linnaeus, 1758), *Incurvaria vetulella* (Zetterstedt, 1839), *Phylloporia bistrigella* (Haworth, 1828), *Bucculatrix frangutella* (Goeze, 1783), *B. thoracella* (Thunberg, 1794), *Parornix fagivora* (Frey, 1861), *Phyllonorycter parisiella* (Wocke, 1848), *Argyresthia dilectella* Zeller, 1847, *A. abdominalis* Zeller, 1839, *Coleophora variicornis* Toll, 1952, and *C. nubivagella* Zeller, 1849 are new for Spain, *Coleophora gredosella* Baldizzzone, 1985 and *C. changaica* Reznik, 1975 are new for Portugal. *Ectoedemia atricollis*, *Nematopogon swammerdamella*, *Incurvaria vetulella*, *Phylloporia bistrigella*, *Bucculatrix thoracella*, *Parornix fagivora*, *Phyllonorycter parisiella*, *Argyresthia dilectella*, *A. abdominalis*, *Coleophora variicornis*, and *C. nubivagella* are new for the Iberian Peninsula. Occurrence of *Coleophora albidella* ([Denis & Schiffermüller], 1775) is confirmed in Spain and of *Brachodes laeta* (Staudinger, 1863) in Portugal. New province records are given of 58 species (79 new province records in all).

KEY WORDS: Lepidoptera, Nepticulidae, Adelidae, Incurvariidae, Gracillariidae, Argylesthiidae, Lyonetiidae, Coleophoridae, Brachodidae, Sesiidae, new records, Iberian Peninsula.

## Nuevos registros de Lepidoptera en la Península Ibérica para el 2016 (Insecta: Lepidoptera)

## Resumen

Se mencionan nuevos registros de Nepticulidae, Adelidae, Incurvariidae, Gracillariidae, Argylesthiidae, Lyonetiidae, Coleophoridae, Brachodidae y Sesiidae para Portugal y España. *Ectoedemia atricollis* (Stainton, 1857), *E. occultella* (Linnaeus, 1767), *Nematopogon swammerdamella* (Linnaeus, 1758), *Incurvaria vetulella* (Zetterstedt, 1839), *Phylloporia bistrigella* (Haworth, 1828), *Bucculatrix frangutella* (Goeze, 1783), *B. thoracella* (Thunberg, 1794), *Parornix fagivora* (Frey, 1861), *Phyllonorycter parisiella* (Wocke, 1848), *Argyresthia dilectella* Zeller, 1847, *A. abdominalis* Zeller, 1839, *Coleophora variicornis* Toll, 1952 y *C. nubivagella* Zeller, 1849 son nuevas para España, *Coleophora gredosella* Baldizzzone, 1985 y *C. changaica* Reznik, 1975 son nuevas para Portugal. *Ectoedemia atricollis*, *Nematopogon swammerdamella*, *Incurvaria vetulella*, *Phylloporia bistrigella*, *Bucculatrix thoracella*, *Parornix fagivora*, *Phyllonorycter parisiella*, *Argyresthia dilectella*, *A. abdominalis*, *Coleophora variicornis* y *C. nubivagella* son nuevas para la Península Ibérica. Se confirma la presencia de *Coleophora albidella* ([Denis & Schiffermüller], 1775) para España y de *Brachodes laeta* (Staudinger, 1863) para Portugal. Se dan nuevos registros provinciales para 58 especies (79 nuevos registros provinciales en total).

PALABRAS CLAVE: Lepidoptera, Nepticulidae, Adelidae, Incurvariidae, Gracillariidae, Argylesthiidae, Lyonetiidae, Coleophoridae, Brachodidae, Sesiidae, nuevos registros, Península Ibérica.

## Introduction

The long-term research on Lepidoptera of the Iberian Peninsula, especially of small moths, started by the authors in 1991 continued also in 2016. New faunistic records and other observations were obtained again in this year and some species collected in 2015 were identified later. The important results are presented in this contribution, thereby the publications by NIEUKERKEN *et al.* (2004, 2010), LAŠTŮVKA & LAŠTŮVKA (2006, 2007, 2009, 2011, 2014a, b, c, 2015), LAŠTŮVKA *et al.* (2000), CORLEY *et al.* (2006, 2007, 2009, 2013), CORLEY (2014), including summarizing works by VIVES MORENO (1994, 2014) and CORLEY (2015), are supplemented. The findings of 11 species new for the Iberian Peninsula, 13 species new for Spain, 2 species new for Portugal and 58 species new for individual provinces are given here.

## Material and methods

The presented records are mostly the results of the authors' (AL & ZL) three week long visit to the Iberian Peninsula from 12th to 30th June 2016, with some data from 2015. Attention was paid only to northern regions of Spain from Girona to Orense and to Trás-os-Montes in Portugal. Material of the mining and other small moths is deposited in the collection of the first, material of Sesiidae in the collection of the second author. Therefore collectors and the collection are not repeated for the individual species. Unless otherwise stated, the determination was performed by the authors and the material was collected at light (UV lamp 125 W, fluorescent tubes 8 and 20 W). Some species (specimens) were beaten from their host plants by day, adults of some species were collected on flowers or in stands of host plants, and empty mines or mines with larvae were found in some mining species.

## New Iberian or country records

### NEPTICULIDAE

*Ectoedemia atricollis* (Stainton, 1857)

ES: Barcelona, Borredá, 2 ♂♂, 1 ♀, 28-VI-2016.

Species with Eurosiberian distribution, known throughout Europe up to southern Scandinavia, with exception of the Balkans and some Mediterranean islands (NIEUKERKEN, 2013). Larvae mine on *Malus*, *Crataegus*, *Pyrus* and other Rosaceous trees, also on *Staphylea pinnata* L. (e.g. LAŠTŮVKA & LAŠTŮVKA, 1997). **New species for Spain and the Iberian Peninsula** (Figs. 1, 15, 16).

*Ectoedemia occultella* (Linnaeus, 1767)

ES: Orense, Villamayor de la Baullosa, 1 ♂, 1 ♀, beaten from bushes of *Betula pubescens* Ehrh., 19-VI-2016.

Holarctic species, known in almost all European countries (NIEUKERKEN, 2013); in the Iberian Peninsula recorded in Portugal, Trás-os-Montes by CORLEY *et al.* (2007). Larvae create characteristic blotch mines on *Betula* sp., developing from black round spots on the leaf (e.g. LAŠTŮVKA & LAŠTŮVKA, 1997). **New species for Spain** (Figs. 2, 17, 18).

### ADELIDAE

*Nematopogon swammerdamella* (Linnaeus, 1758)

ES: Girona, Rocabruna, 1 ♀, 12-VI-2015.

Species known throughout Europe, with exception of the Balkans, Iberian Peninsula and Mediterranean islands (NIEUKERKEN, 2013). Larvae live in portable cases and eat both living and dead leaves of various trees (RAZOWSKI, 1978). **New species for Spain and the Iberian Peninsula** (Fig. 3).

#### INCURVARIIDAE

*Incurvaria vetulella* (Zetterstedt, 1839)

ES: Oviedo, Valdebueyes, 1 ♂, beaten from bushes of *Betula pubescens* Mill., *Vaccinium myrtillus* L., *Erica* sp., *Sorbus aucuparia* L., etc., 22-VI-2015.

Holarctic species, in Europe reliably recorded in Scandinavia, northern European Russia, in mountains of central Europe, Romania and Bulgaria (OKAMOTO & HIROWATARI, 2004; NIEUKERKEN, 2013). Larvae develop on *Vaccinium* sp. (RAZOWSKI, 1978). **New species for Spain and the Iberian Peninsula, first record from western Europe** (Figs. 4, 19).

*Phylloporia bistrigella* (Haworth, 1828)

ES: Lugo, Oviaño - A Fornaza, 1 ♀, 21-VI-2016.

Holarctic species, in Europe known from central and northern parts (OKAMOTO & HIROWATARI, 2004; NIEUKERKEN, 2013). Larvae mine leaves of *Betula* sp. and later live in portable cases on the ground in which they pupate after overwintering (RAZOWSKI, 1978). **New species for Spain and the Iberian Peninsula** (Figs. 5, 20).

#### BUCCULATRICIDAE

*Bucculatrix frangutella* (Goeze, 1783)

ES: Lugo, Oviaño - A Fornaza, 1 ♀, 21-VI-2016.

Species known in almost all European countries with the exception of Bulgaria, Greece and Mediterranean islands (MEY, 2013). In the Iberian Peninsula recorded for the first time by CORLEY *et al.* (2006) from Portugal, Alto Alentejo, later it was collected in other Portuguese provinces (CORLEY, 2015). Larvae initially make small spiral mines on *Rhamnus* sp. and *Frangula alnus* L., later live externally on the underside of the leaves. **New species for Spain** (Figs. 6, 21).

*Bucculatrix thoracella* (Thunberg, 1794)

ES: Gerona, Camprodón, numerous cocoons, mostly with exuviae, on trunks of *Tilia cordata*, 13-VI-2016.

Species with Eurosiberian distribution (KOBAYASHI *et al.*, 2010), known in almost all countries of northern, central and south-eastern Europe with the exception of Ireland, Iberian Peninsula, Greece and Mediterranean islands (MEY, 2013). Larvae initially mine leaves of *Tilia* sp., occasionally *Acer* sp., *Aesculus hippocastanum* L. and other trees, later they live externally. **New species for Spain and the Iberian Peninsula.**

#### GRACILLARIIDAE

*Parornix fagivora* (Frey, 1861)

ES: Gerona, Ripoll, mines with larvae on *Fagus sylvatica*, 29-VI-2015.

European species, recorded in most European countries up to southern Sweden in the north, with the exception of Ireland, Iberian Peninsula, Greece and Mediterranean islands (BUSZKO, 2013, DE PRINS & DE PRINS, 2015). Larvae initially mine the leaves of *Fagus sylvatica* L., later they live externally under a fold of the leaf margin. **New species for Spain and the Iberian Peninsula** (Fig. 7).

*Phyllonorycter parisiella* (Wocke, 1848)

ES: Lugo, Oviaño - A Fornaza, 1 ♂, 21-VI-2016.

European species, known in France, Switzerland, Austria, the Czech Republic, Slovakia, Hungary, Italy, Sardinia, Croatia, Romania and Macedonia (BUSZKO, 2013; DE PRINS & DE PRINS, 2015). Larvae create blotch mines on the underside of leaves of *Quercus pubescens* Mill., also some other *Quercus* species are observed host plants (e.g. DE PRINS & DE PRINS, 2015). **New species for Spain and the Iberian Peninsula** (Figs. 8, 22).

ARGYRESTHIIDAE

*Argyresthia dilectella* Zeller, 1847

ES: Gerona, Rocabruna, 1 ♂, beaten from bushes of *Juniperus communis* L., 29-VI-2016.

European species, known in all western, central and northern European countries, and in Italy (AGASSIZ, 2013). Larvae feed in young shoots of *Juniperus* sp. and *Chamaecyparis* sp. (e.g. FRIESE, 1969). **New species for Spain and the Iberian Peninsula** (Figs. 9, 23, 24).

*Argyresthia abdominalis* Zeller, 1839

ES: Barcelona, Borredá, 1 ♂, 2 ♀♀, 28-VI-2016; Gerona, Rocabruna, 1 ♂, 1 ♀, 12-VI-2016, 3 ♂♂, 1 ♀, 29-VI-2016; Huesca, Espés-Alins, 1 ♀, 15-VI-2016, 1 ♂, 26-VI-2016, beaten from bushes of *Juniperus communis* L., partly at light.

Species known in western, central and northern Europe, also in Italy, Croatia, Serbia, Montenegro, Romania and Bulgaria (AGASSIZ, 2013). Larvae mine leaves of *Juniperus communis* L. (e.g. FRIESE, 1969). **New species for Spain and the Iberian Peninsula** (Figs. 10, 25, 26).

COLEOPHORIDAE

*Coleophora variicornis* Toll, 1952

ES: Lérida, Surp, 1 ♂, 8-VI-2015, det. Ig. Richter.

Species known only in France, Germany, the Czech Republic, Slovakia, Italy, Croatia, Albania, Macedonia, Bulgaria, Greece and Turkmenistan (STÜBNER, 2007; VAN DER WOLF & BALDIZZONE, 2013). Larvae feed on seeds of *Trifolium pratense* L. (NUSS & STÜBNER, 2003). **New species for Spain and the Iberian Peninsula** (Figs. 11, 27).

*Coleophora gredosella* Baldizzone, 1985

ES: León, Páramo de Sil, 1900 m, 1 ♀, 16-VI-2015; PT: Bragança, Bemposta, 1 ♂, 2 ♀♀, 12-VI-2015, det. Ig. Richter.

Species described and only known from Spain (BALDIZZONE, 1985; VAN DER WOLF & BALDIZZONE, 2013). The host plant of this species is unknown. The adult, male and female genitalia of the recorded specimens are figured by RICHTER (2016). **New species for Portugal** (Fig. 28).

*Coleophora albidella* ([Denis & Schiffermüller], 1775)

ES: Cantabria, Carmona, 1 ♂, 8-VI-2015, det. Ig. Richter.

Species known in almost all European countries with the exception of the Balkans. In the Iberian Peninsula recorded in Portugal: Baixo Alentejo, Beira Litoral and Minho (CORLEY, 2015), occurrence in Spain, only one mention in Granada by Kautz in 1928 (VIVES MORENO, 1987). Larvae skeletonize or mine leaves of some, usually broad-leaved *Salix* species (e. g. PATZAK, 1974). **Confirmed occurrence in Spain** (Fig. 12, 29).

*Coleophora changaica* Reznik, 1975

PT: Bragança, Bemposta, 1 ♀, 12-VI-2015, det. Ig. Richter.

Species with very local Transpalaeartic distribution, in Europe known from Spain, Ukraine and

southern European Russia (VAN DER WOLF & BALDIZZONE, 2013). The first records from various parts of Spain are given by BALDIZZONE (1986). Larvae mine leaves of some *Artemisia* species (BALDIZZONE, 1986). The adult and female genitalia of the recorded specimen are figured by RICHTER (2016). **New species for Portugal** (Fig. 30).

*Coleophora nubivagella* Zeller, 1849

ES: Huesca, Torla - Bujaruello, 1 ♂, 1 ♀, 21-VI-2015, det. Ig. Richter.

Species with European distribution, known from France, most central European countries, Italy, Serbia, Montenegro, Macedonia and Romania (VAN DER WOLF & BALDIZZONE, 2013). Larvae feed on various herbaceous plants, especially from the family Caryophyllaceae, e.g. *Arenaria*, *Cerastium*, *Dianthus*, *Gypsophila*, *Minuartia*, *Saponaria* and *Silene*, also plants from other families are mentioned, as *Anthyllis*, *Dryas* and *Primula*. **New species for Spain and the Iberian Peninsula** (Figs. 13, 31).

## BRACHODIDAE

*Brachodes laeta* (Staudinger, 1863)

PT: Bragança, Bemposta, 2 ♂♂, 12-VI-2015, det. rev. et coll. K. Špatenka.

Species very locally recorded in Spain and France; occurrence in Portugal is insufficiently documented (KALLIES, 2013; CORLEY, 2015). STAUDINGER (1863) in his original description also mentions the finding of larvae, without giving the host plant. Larvae very probably develop on the roots of some Poaceae in a similar way to other *Brachodes* species. **Confirmed occurrence in Portugal** (Fig. 14).

## New province records

## NEPTICULIDAE

The complete faunistic data and remarks on most of the following Nepticulidae and Opostegidae are given by NIEUKERKEN *et al.* (2004), partly by LAŠTŮVKA & LAŠTŮVKA (2008, 2009, 2011, 2014a, b, 2015), and NIEUKERKEN *et al.* (2010). Only records of species with less than four province records are individually commented.

*Stigmella lapponica* (Wocke, 1862)

ES: Lugo, Monforte de Lemos, mines on *Betula pubescens* Ehrh., 21-VI-2016; Oviedo, Valdebueyes, mines on *Betula pubescens*, 22-VI-2016.

Two other Spanish records, previously known from the provinces of Orense and Zamora (LAŠTŮVKA & LAŠTŮVKA, 2014a).

*Stigmella sakhalinella* Puplesis, 1984

ES: Girona, Rocabruna, 1 ♂, 12-VI-2016.

Species with trophic relation to *Betula* sp., known from the province of Orense (LAŠTŮVKA & LAŠTŮVKA, 2014b); second Spanish record.

*Stigmella luteella* (Stainton, 1857)

ES: Lugo, Oviaño - A Fornaza, 1 ♂, 1 ♀, 21-VI-2016.

Species with trophic relation to *Betula* sp., known from the provinces of Cantabria and Orense (LAŠTŮVKA & LAŠTŮVKA, 2014a, 2015); third Spanish record.

*Stigmella mespilicola* (Frey, 1856)

ES: Lugo, Oviaño - A Fornaza, 1 ♂, 21-VI-2016.

*Stigmella sorbi* (Stainton, 1861)

ES: Oviedo, Valdehueyes, mines on *Sorbus aucuparia* L., 22-VI-2016.  
Second Spanish record (NIEUKERKEN *et al.*, 2004).

*Stigmella aurella* (Fabricius, 1775)

ES: Lugo, Oviaño - A Fornaza, 1 ♂, 21-VI-2016; Orense, Villamayor de la Bouslosa, 1 ♂, 19-VI-2016.

*Stigmella suberivora* (Stainton, 1869)

ES: Lugo, Oviaño - A Fornaza, 2 ♂♂, 21-VI-2016.

*Stigmella ilicifoliella* (Mendes, 1918)

ES: Lugo, Oviaño - A Fornaza, 2 ♀♀, 21-VI-2016.

*Stigmella basiguttella* (Heinemann, 1862)

ES: Huesca, Boltaña - Silves, 2 ♂♂, 25-VI-2016; Santa Eulalia de Gállego, 10 km W, 2 ♂♂, 24-VI-2016; Lugo, Oviaño - A Fornaza, 1 ♀, 21-VI-2016.

*Trifurcula rosmarinella* (Chrétien, 1914)

ES: Huesca, Boltaña - Silves, 2 ♂♂, 1 ♀, 16-VI-2016, 1 ♀, 25-VI-2016.

*Trifurcula bleonella* (Chrétien, 1907)

ES: Huesca, Boltaña - Silves, 1 ♂, 25-VI-2016.

*Trifurcula ortneri* (Klimesch, 1951)

ES: Huesca, Boltaña - Silves, 3 ♂♂, 25-VI-2016.

*Trifurcula subnitidella* (Duponchel, 1843)

ES: Barcelona, Borredá, 1 ♂, 28-VI-2016.

*Trifurcula immundella* (Zeller, 1839)

ES: Lugo, Oviaño - A Fornaza, 1 ♂, 21-VI-2016.

*Trifurcula squamatella* (Stainton, 1849)

ES: Lugo, Oviaño - A Fornaza, 2 ♂♂, 21-VI-2016.

*Ectoedemia decentella* (Herrich-Schäffer, 1855)

ES: Lérida, Surp, 2 ♂♂, 14-VI-2016.

Species with trophic relation to *Acer pseudoplatanus* L. and *A. monspessulanum* L., known from the province of Zaragoza (LAŠTŮVKA & LAŠTŮVKA, 2008); second Spanish record.

*Ectoedemia septembrella* (Stainton, 1849)

ES: Lugo, Oviaño - A Fornaza, 2 ♂♂, 21-VI-2016.

*Ectoedemia liebwerdella* (Zimmermann, 1940)

ES: Girona, Rocabruna, 1 ♂, 12-VI-2016; Huesca, Boltaña - Silves, 1 ♂, 25-VI-2016.

*Ectoedemia phaeolepis* Nieukerken, Laštůvka & Laštůvka, 2010

ES: Palencia, Villamediana, 3 ♂♂, 23-VI-2016.

*Ectoedemia quinquella* (Bedell, 1848)

ES: Lugo, Oviaño - A Fornaza, 2 ♂♂, 21-VI-2016.

Species with trophic relation to *Quercus robur* L., in Spain known from the province of Gerona (LAŠTŮVKA & LAŠTŮVKA, 2014a); second Spanish record.

*Ectoedemia haraldi* (Soffner, 1942)

ES: Lérida, Cañalda, 2 ♂♂, 3 ♀♀, 13-VI-2016.

*Ectoedemia ilicis* (Mendes, 1910)

ES: Lérida, Cañalda, 1 ♂, 1 ♀, 13-VI-2016.

*Ectoedemia albifasciella* (Heinemann, 1871)

ES: Gerona, Rocabruna, 1 ♂, 3 ♀♀, 12-VI-2015.

*Ectoedemia pubescivora* (Weber, 1937)

ES: Lérida, Surp, 1 ♀, 14-VI-2016; Lugo, Oviaño - A Fornaza, 2 ♀♀, 21-VI-2016; Orense, Villamayor de la Boullosa, 2 ♀♀, 19-VI-2016.

*Ectoedemia subbimaculella* (Haworth, 1828)

ES: Lugo, Oviaño - A Fornaza, 2 ♀♀, 21-VI-2016; Orense, Villamayor de la Boullosa, 2 ♀♀, 19-VI-2016.

*Ectoedemia erythrogenella* (Joannis, 1908)

ES: Lugo, Oviaño - A Fornaza, 2 ♂♂, 1 ♀, 21-VI-2016.

#### OPOSTEGIDAE

*Opostegoides menthinella* (Mann, 1855)

ES: Huesca, Boltaña - Silves, 1 ♂, 16-VI-2016.

*Pseudopostega crepusculella* (Zeller, 1839)

ES: Lugo, Oviaño - A Fornaza, 1 ♂, 21-VI-2016.

#### BUCCULATRICIDAE

*Bucculatrix cidarella* (Zeller, 1839)

ES: Huesca, Espes-Alins, 1 ♀, 26-VI-2016.

Species known in the province of Gerona (LAŠTŮVKA & LAŠTŮVKA, 2009) in Spain and in Portugal, Beira Alta and Minho (CORLEY *et al.*, 2009, 2013); second Spanish record.

#### GRACILLARIIDAE

The faunistic data and remarks on the following Gracillariidae known in more than three provinces are given by VIVES MORENO (1994) and LAŠTŮVKA & LAŠTŮVKA (2006, 2007, 2009, 2011, 2014a, b, 2015).

*Caloptilia cuculipennella* (Hübner, 1796)

ES: Huesca, Boltaña - Silves, mines with cocoons on *Fraxinus*, 25-VI-2016.

*Caloptilia conimbricensis* Corley, 2014

ES: Huesca, Boltaña - Silves, 1 ♀, 25-VI-2016; Santa Eulalia de Gállego, 10 km W, 1 ♂, 24-VI-2012.



Species just described, known in Spain from the provinces Cádiz and Palencia (CORLEY, 2014); third Spanish record.

*Gracillaria loriolella* (Frey, 1881)

ES: León, Páramo de Sil, 1 ♀, 22-VI-2016.

In Spain species known from the province of Zaragoza (LAŠTŮVKA & LAŠTŮVKA, 2011), second Spanish record.

*Parornix scoticella* (Stainton, 1850)

ES: Barcelona, Borredá, 1 ♂, 28-VI-2016; Huesca, Espes-Alins, 1 ♂, 1 ♀, 15-VI-2016; Lérida, Surp, 1 ♂, 14-VI-2016.

*Parornix torquillella* (Zeller, 1850)

ES: Gerona, Rocabruna, 1 ♂, 12-VI-2016; Lérida, Surp, 1 ♂, 14-VI-2016.

Third and fourth Spanish records, known from the provinces of Huesca and León (LAŠTŮVKA & LAŠTŮVKA, 2014b, 2015).

*Phyllonorycter hilarella* (Zetterstedt, 1839)

ES: Huesca, Espes-Alins, 2 ♂♂, 1 ♀, 15-VI-2016; Lérida, Boi Taul, 1 ♂, 27-VI-2016; Oviedo, Valdebueyes, 2 ♂♂, 22-VI-2016, beaten from bushes of *Salix caprea* L.

*Phyllonorycter coryli* (Nicelli, 1851)

ES: Oviedo, Buelles, numerous mines on *Corylus avellana* L., 23-VI-2016.

Species known from the provinces Barcelona, Gerona and Lérida (OLIVELLA, 2000; DANTART *et al.*, 2010; LAŠTŮVKA & LAŠTŮVKA, 2014b).

*Phyllonorycter endryella* (Mann, 1855)

ES: Lérida, Cañalda, 3 ♂♂, 13-VI-2016.

*Phyllonorycter barbarella* (Rebel, 1901)

ES: Huesca, Espes-Alins, 2 ♂♂, 26-VI-2016.

*Phyllonorycter kUSDasi* (Deschka, 1970)

ES: Huesca, Boltaña - Silves, 1 ♀, 25-VI-2016.

*Phyllonorycter genistella* (Rebel, 1901)

ES: León, Páramo de Sil, 1 ♂, 22-VI-2016.

*Phyllonorycter staintoniella* (Nicelli, 1853)

ES: Barcelona, Berga - Peguera, 1 ♀, beaten from *Juniperus* sp. bushes, 27-VI-2016; Borredá, 1 ♀ 28-VI-2016; Lérida, Surp, 1 ♂, 14-VI-2016.

*Phyllonorycter scabiosella* (Douglas, 1853)

ES: Lérida, Cañalda, 1 ♀, 27-VI-2016.

*Phyllonorycter nicellii* (Stainton, 1851)

ES: Oviedo, Buelles, numerous mines on *Corylus avellana* L., 23-VI-2016.

Species known from the provinces Barcelona, Gerona and Lérida (OLIVELLA, 2000; DANTART *et al.*, 2010; LAŠTŮVKA & LAŠTŮVKA, 2014b).

*Phyllonorycter deschkai* Triberti, 2007

ES: Barcelona, Borredá, 1 ♂, 28-VI-2016.

Species known from the province of Huesca (LAŠTŮVKA & LAŠTŮVKA, 2014b); second Spanish and Iberian record.

*Phyllonorycter monspessulanella* (Fuchs, 1897)

ES: Barcelona, Borredá, 1 ♀, 28-VI-2016.

Species known from the province of Huesca (LAŠTŮVKA & LAŠTŮVKA, 2015); second Spanish and Iberian record.

## LYONETHIDAE

*Leucoptera aceris* (Fuchs, 1903)

ES: Lérida, Surp, 1 ♀, 27-VI-2016.

Species known from the province of Teruel (LAŠTŮVKA & LAŠTŮVKA, 2014a) in Spain and in Trás-os-Montes in Portugal (CORLEY *et al.*, 2007); second Spanish record.

## SESIIDAE

The faunistic data are summarized and remarks on biology and distribution on the following Sesiidae are given by LAŠTŮVKA *et al.* (2000) and LAŠTŮVKA & LAŠTŮVKA (2014c, 2015).

*Sesia bembeciformis* (Hübner, [1806])

ES: Gerona, Collado de Aras, exit holes in *Salix caprea* L., 12-VI-2016.

*Eusphesia melanocephala* (Dalman, 1816)

ES: Gerona, Rocabrúna, exit holes in *Populus tremula* L., 12-VI-2016.

*Synanthedon scoliaeformis* (Borkhausen, 1789)

ES: Oviedo, Valdehueyes, exit holes in *Betula* sp., 22-VI-2016.

*Synanthedon spheciformis* ([Denis & Schiffermüller], 1775)

ES: Gerona, Collado de Aras, 12-VI-2016; Oviedo, Valdehueyes, 22-VI-2016, larval corridors and sawdust in *Betula pubescens* Ehrh.

*Synanthedon culiciformis* (Linnaeus, 1758)

ES: Gerona, Collado de Aras, 12-VI-2016; Oviedo, Valdehueyes, 22-VI-2016, exit holes in stumps of *Betula pubescens* Ehrh.

*Synanthedon flaviventris* (Staudinger, 1883)

ES: Zamora, Padornelo, pupa in *Salix atrocinerea* Brot., 19-VI-2016, 1 ♀ ex p., 1-VII-2016.

Species known in the province of Soria (LAŠTŮVKA & LAŠTŮVKA, 2014c); second Spanish and Iberian record.

*Bembecia ichneumoniformis* ([Denis & Schiffermüller], 1775)

ES: Burgos, Retortillo, 24-VI-2016, 1 ♀, ex larva, 6-VII-2016; Gerona, Rocabrúna, 12-VI-2016; Huesca, Santa Eulalia de Gállego, 17-VI-2016, 1 ♀, ex larva, 2-VII-2016; Palencia, Villamediana, 23-VI-2016; Valladolid, Peñafiel, 18-VI-2016; Zaragoza, Fuencalderas, 18-VI-2016, 1 ♂, ex larva, 5-VII-2016; always larvae and pupae, mostly in *Dorycnium pentaphyllum* Scop.

*Pyropteron aistleitneri* (Špatenka, 1992)

ES: Lérida, San Lorenzo de Morunys, 1 ♂, 28-VI-2016.

First record of this species in northeastern Spain (cf. LAŠTŮVKA & LAŠTŮVKA, 2014c).

*Pyropteron leucomelaena* (Zeller, 1847)

ES: Burgos, Retortillo, 1 ♀, 24-VI-2016; Soria, Villaciervos, 1 ♂, 18-VI-2016.

*Pyropteron affinis* (Staudinger, 1856)

ES: Huesca, Benasque - Cerler, 1 ♀, 26-VI-2016.

*Chamaesphecia ramburi* (Staudinger, 1866)

ES: Burgos, Retortillo, 1 ♂, 24-VI-2016; Palencia, Palenzuela, 1 ♀, 24-VI-2016; Valladolid, Peñafiel, 1 ♂, 18-VI-2016.

*Chamaesphecia empiformis* (Esper, 1783)

ES: Girona, Collado de Aras, larvae in roots of *Euphorbia cyparissias* L., 12-VI-2016, 1 ♀ ex larva, 3-VII-2016; Huesca, Benasque - Cerler, larvae and pupae in roots of *Euphorbia cyparissias*, 26-VI-2016, 1 ♀, ex larva, 2-VII-2016; Lérida, Collado del Cantó, larvae in roots of *Euphorbia cyparissias*, 14-VI-2016, 1 ♀, ex larva, 5-VII-2016; Puerto de Bonaigua, larvae in roots of *Euphorbia cyparissias*, 15-VI-2016; San Lorenzo de Morunys, larvae in roots of *Euphorbia cyparissias*, 13-VI-2016.

Species known from the provinces of Barcelona and Lérida (GAVALDÁ, 1988; LAŠTŮVKA *et al.*, 2000); additional records from the eastern parts of Pyrenees.

## Acknowledgements

We are grateful to M. Corley (Faringdon) for important comments and linguistic revision of the manuscript, to Dr. A. Vives (Madrid) for support in obtaining collecting permits for Spain, for comments on the manuscript and for linguistic revision of the Spanish abstract, to Dr. M. Segueira (ICNF, Lisboa), Dr. H. Carvalho (Parque Nacional da Peneda Gerês) and Dr. C. P. Santos (Parque Natural do Douro Internacional) for the permit to collect Lepidoptera in protected areas of Portugal, to Ig. Richter (Prievidza, Slovakia) for the determination of the *Coleophora* species, and to Dr. K. Špatenka (České Budějovice, Czech Republic) for the determination of *Brachodes laeta*.

## BIBLIOGRAPHY

- AGASSIZ, D., 2013.– Fauna Europaea: Argyresthiidae.– In O. KARSHOLT & E. J. VAN NIEUKERKEN (eds). *Fauna Europaea: Lepidoptera, Moths*. Fauna Europaea, Version 2.6.2. Available from <http://www.faunaeur.org/> (accessed 26 September 2015).
- BALDIZZONE, G., 1985.– Contribution à la connaissance des Coleophoridae. XLII. Sur quelques Coleophoridae d'Espagne (Première partie: Description de nouvelles espèces).– *Nota lepidopterologica*, **8**: 203-241.
- BALDIZZONE, G., 1986.– Contributions à la connaissance des Coleophoridae. XLII. Sur quelques Coleophoridae d'Espagne (Seconde partie: Espèces nouvelles pour la faune espagnole, ou peu connues).– *Nota lepidopterologica*, **9**: 2-34.
- BUSZKO, J., 2013.– Fauna Europaea: Gracillariidae.– In O. KARSHOLT & E. J. VAN NIEUKERKEN (eds): *Fauna Europaea: Lepidoptera, Moths*. Fauna Europaea, Version 2.6.2. Available from <http://www.faunaeur.org/> (accessed 26 September 2015).
- CORLEY, M., 2014.– Five new species of Microlepidoptera from Portugal.– *Entomologist's Record and Journal of Variation*, **126**: 229-243.
- CORLEY, M. F. V., 2015.– *Lepidoptera of continental Portugal. A fully revised list*: 282 pp. Martin Corley, Faringdon.
- CORLEY, M. F. V., MARABUTO, E., MARAVALHAS, E., PIRES, P. & CARDOSO, J. P., 2009.– New and interesting Portuguese Lepidoptera records from 2008 (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterologia*, **37**(148): 463-484.

- CORLEY, M. F. V., MARABUTO, E. & PIRES, P., 2007.– New Lepidoptera for the fauna of Portugal (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **35**(139): 321-334.
- CORLEY, M. F. V., MARAVALHAS, E. & PASSOS DE CARVALHO, J., 2006.– Miscellaneous additions to the Lepidoptera of Portugal (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **34**(136): 407-427.
- CORLEY, M. F. V., MERCKX, T., MARABUTO, E. M., ARNSCHIED, W. & MARAVALHAS, E., 2013. New and interesting Portuguese Lepidoptera records from 2012 (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **41**(164): 449-477.
- DANTART, J., CERVELLÓ, A., JUBANY, J., MARTÍ, J., XAUS, A., VALLHONRAT, F. & OLIVELLA, E., 2010.– Els lepidòpters de les Planes de Son i la mata de València.– *Treballs de la Institució Catalana d'Història Natural*, **16**: 531-608.
- DE PRINS, J. & DE PRINS, W., 2015.– *Global taxonomic database of Gracillariidae (Lepidoptera)*. Available from <http://www.gracillariidae.net> (accessed 20 September 2015).
- FRIESE, G., 1969.– Beiträge zur Insekten-Fauna der DDR: Lepidoptera - Argresthiidae.– *Beiträge zur Entomologie*, **19**: 693-752.
- GAVALDÁ, A., 1988.– Aportació a l'estudi dels Sesiidae Boisduval, 1828 de Catalunya.– *Treballs de la Societat Catalana de Lepidopterologia*, **8**: 11-35.
- KALLIES, A., 2013.– Fauna Europaea: Brachodidae.– In O. KARSHOLT & E. J. VAN NIEUKERKEN (eds): *Fauna Europaea: Lepidoptera, Moths*. Fauna Europaea, Version 2.6.2. Available from <http://www.faunaeur.org/> (accessed 29 September 2016).
- KOBAYASHI, S., HIROWATARI, T. & KUROKO, H., 2010.– A revision of the Japanese species of the family Bucculatricidae (Lepidoptera).– *Transactions of the Lepidopterological Society of Japan*, **61**: 1-57.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 1997.– *Nepticulidae Mitteleuropas. Ein illustrierter Begleiter (Lepidoptera)*: 229 pp. Konvoj, Brno.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2006.– The European *Phyllonorycter* species feeding on the plants of the tribe Genisteae (Fabaceae), with descriptions of twelve new species (Lepidoptera: Gracillariidae).– *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis*, **54**(5): 65-84.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2007.– Southern European *Phyllonorycter* species mining *Quercus*, with two new species (Lepidoptera: Gracillariidae).– *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis*, **55**(1): 95-110.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2008.– Seven Nepticulidae new to the Iberian Peninsula and several new province records (Lepidoptera: Nepticulidae).– *SHILAP Revista de lepidopterología*, **36**(144): 457-464.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2009.– New records of mining Lepidoptera from the Iberian Peninsula (Lepidoptera: Nepticulidae, Opostegidae, Bucculatricidae, Gracillariidae).– *SHILAP Revista de lepidopterología*, **37**(148): 485-494.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2011.– New records of Nepticulidae and Gracillariidae from the Iberian Peninsula (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **39**(156): 379-387.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2014a.– New records of mining moths from the Iberian Peninsula (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **42**(165): 121-133.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2014b.– New records of mining moths from the Iberian Peninsula from 2014 (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **42**(168): 633-647.
- LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2015.– New records of Lepidoptera from the Iberian Peninsula for 2015 (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **43**(172): 633-644.
- LAŠTŮVKA, Z., BLÄSIUS, R., BARTSCH, D., BETTAG, E., BLUM, E., LAŠTŮVKA, A., LINGENHÖLE, A., PETERSEN, M., RIEFENSTAHL, H. & ŠPATENKA, K., 2000.– Zur Kenntnis der Glasflügler Spaniens (Lepidoptera: Sesiidae).– *SHILAP Revista de lepidopterología*, **28**(110): 227-237.
- LAŠTŮVKA, Z. & LAŠTŮVKA, A., 2014.– Sesiidae of the Iberian Peninsula, new records and distributional analysis (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **42**(168): 559-580.
- MEY, W., 2013.– Fauna Europaea: Bucculatricidae.– In O. KARSHOLT & E. J. VAN NIEUKERKEN (eds): *Fauna Europaea: Lepidoptera, Moths*. Fauna Europaea, Version 2.6.2. Available from <http://www.faunaeur.org/> (accessed 26 September 2015).
- NIEUKERKEN, E. J. VAN, 2013.– Fauna Europaea: Nepticulidae, Adelidae, Incurvariidae.– In O. KARSHOLT & E. J. VAN NIEUKERKEN (eds): *Fauna Europaea: Lepidoptera, Moths*. Fauna Europaea, Version 2.6.2. Available from <http://www.faunaeur.org/> (accessed 28 September 2016).
- NIEUKERKEN, E. J. VAN, LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2004.– Annotated catalogue of the Nepticulidae

- and Opostegidae of the Iberian Peninsula (Lepidoptera: Nepticuloidea).– *SHILAP Revista de lepidopterología*, **32**(127): 211-260.
- NIEUKERKEN, E. J. VAN, LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2010.– Western Palaearctic *Ectoedemia* (Zimmermannia) Hering and *Ectoedemia* Busck s. str. (Lepidoptera, Nepticulidae): five new species and new data on distribution, hostplants and recognition.– *ZooKeys*, **32**: 1-82.
- NUSS, M. & STÜBNER, A., 2003.– *Coleophora variicornis* Toll, 1952 stat. rev. is a distinct species occurring in Central Europe (Coleophoridae).– *Nota lepidopterologica*, **26**: 27-34.
- OKAMOTO, H. & HIROWATARI, T., 2004.– Distributional records and biological notes on Japanese species of the family Incurvariidae (Lepidoptera).– *Transactions of the Lepidopterological Society of Japan*, **55**: 173-195.
- OLIVELLA, E., 2000.– Aportació al coneixement dels lepidòpters minadors de Catalunya.– *Butlletí de la Societat Catalana de Lepidopterologia*, **85**: 27-36.
- PATZAK, H., 1974.– Beiträge zur Insektenfauna der DDR: Lepidoptera - Coleophoridae.– *Beiträge zur Entomologie*, **24**: 153-278.
- RAZOWSKI, J., 1978.– Motyle (Lepidoptera) Polski. Cześć III - Heteroneura, Adeloidea.– *Monografie Fauny Polski*, **8**: 137 pp., 11 pls.
- RICHTER, Ig., 2016.– Coleophoridae. Available from <http://www.coleophoridae.bluefile.cz/> (accessed 30 October 2016).
- STAUDINGER, O., 1863.– Einige neue europäische Lepidopteren.– *Entomologische Zeitung, Stettin*, **24**: 264-271.
- STÜBNER, A., 2007.– Taxonomische Revision der *Coleophora frischella*-Artengruppe (Coleophoridae).– *Nota lepidopterologica*, **30**: 121-172.
- VIVES MORENO, A., 1987.– *La Familia Coleophoridae Hübner, [1825] en la Península Ibérica (Insecta: Lepidoptera)*: 468 pp., 213 pls. Universidad Complutense de Madrid. Tesis Doctoral 75/87. Madrid.
- VIVES MORENO, A., 1994.– *Catálogo sistemático y sinónimo de los lepidópteros de la Península Ibérica y Baleares (Insecta: Lepidoptera) (Segunda Parte)*: 775 pp. Secretaría General Técnica, Ministerio de Agricultura, Pesca y Alimentación, Madrid.
- VIVES MORENO, A., 2014.– *Catálogo sistemático y sinónimo de los Lepidoptera de la Península Ibérica, de Ceuta, de Melilla y de las islas Azores, Baleares, Canarias, Madeira y Salvajes (Insecta: Lepidoptera)*: 1184 pp. Suplemento de SHILAP Revista de lepidopterología, Madrid.
- WOLF, H. VAN DER & BALDIZZONE, G., 2013.– Fauna Europaea: Coleophoridae.– In O. KARSHOLT & E. J. VAN NIEUKERKEN (eds). *Fauna Europaea: Lepidoptera, Moths*. Fauna Europaea, Version 2.6.2. Available from <http://www.faunaeur.org/> (accessed 28 September 2016).

A. L.  
Slavíčková, 15  
CZ-796 01 Prostějov  
REPÚBLICA CHECA / CZECH REPUBLIC

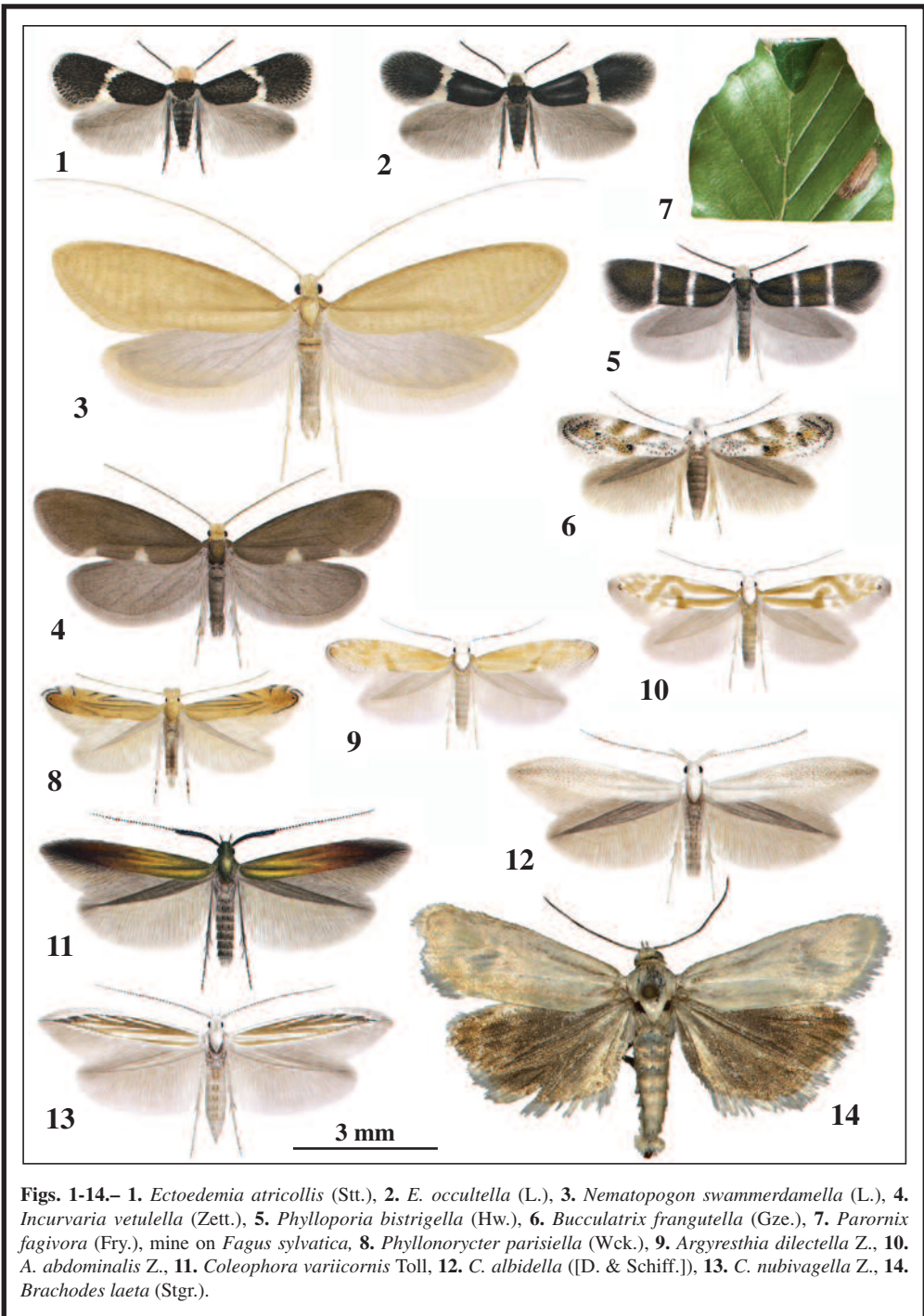
\*Z. L.  
Department of Zoology, Fisheries, Hydrobiology and Apiculture  
Mendel University  
Zemědělská, 1  
CZ-613 00 Brno  
REPÚBLICA CHECA / CZECH REPUBLIC  
E-mail: last@mendelu.cz

\*Autor para la correspondencia / Corresponding author

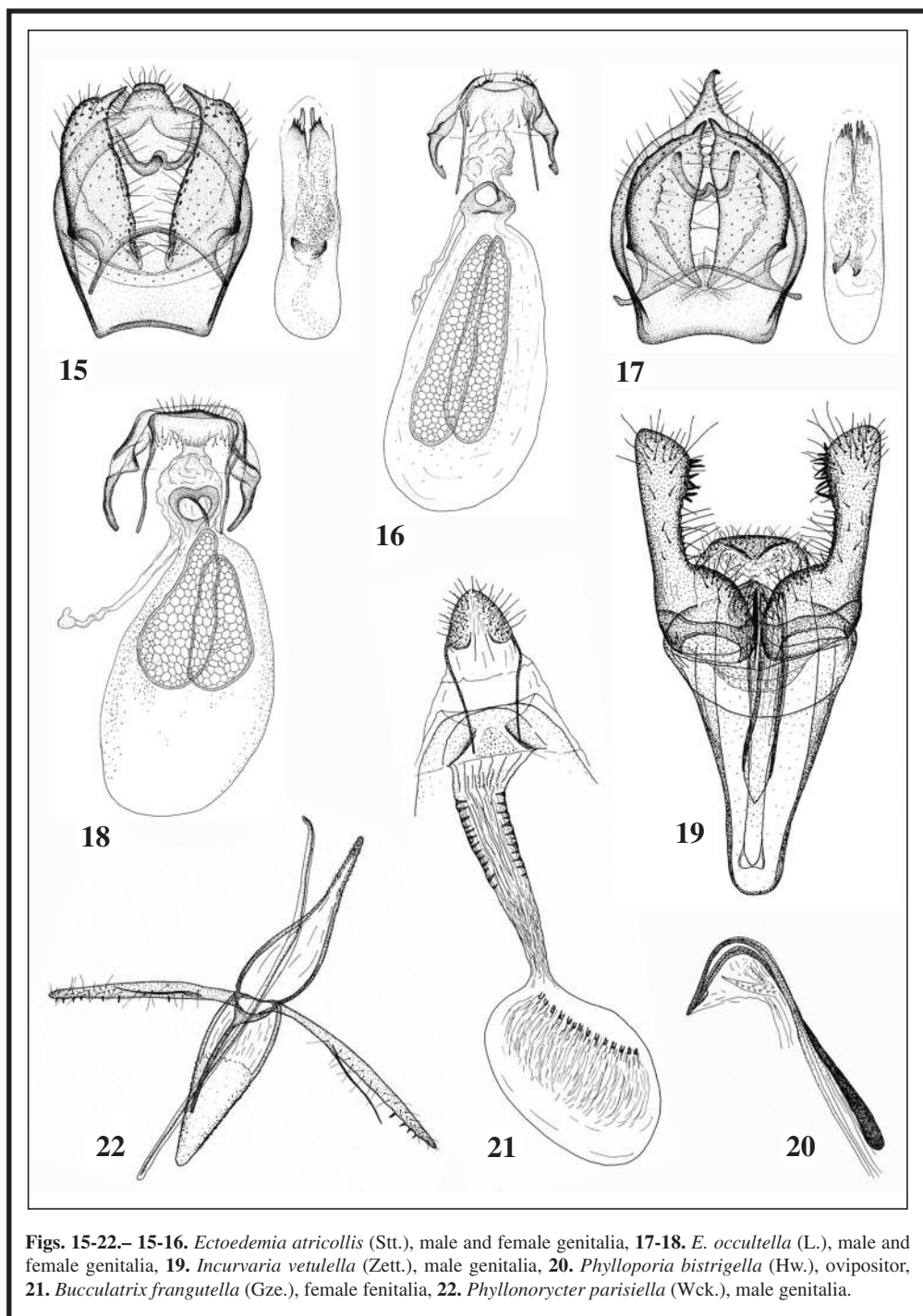
(Recibido para publicación / Received for publication 14-X-2016)

(Revisado y aceptado / Revised and accepted 5-XII-2016)

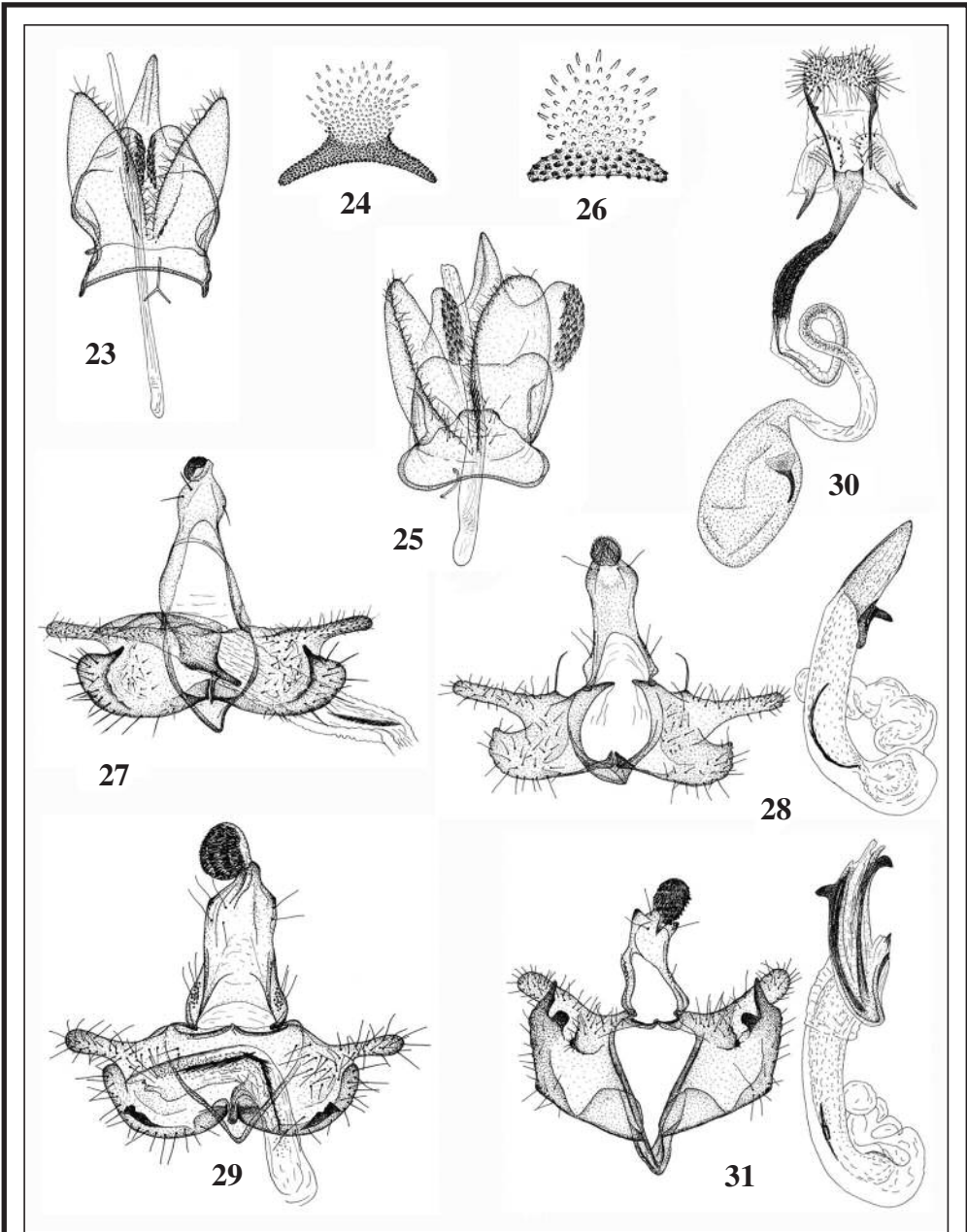
(Publicado / Published 30-VI-2017)







**Figs. 15-22.**— **15-16.** *Ectoedemia atricollis* (Stt.), male and female genitalia, **17-18.** *E. occultella* (L.), male and female genitalia, **19.** *Incurvaria vetulella* (Zett.), male genitalia, **20.** *Phylloporia bistrigella* (Hw.), ovipositor, **21.** *Bucculatrix frangutella* (Gze.), female genitalia, **22.** *Phyllonorycter parisiella* (Wck.), male genitalia.



**Figs. 23-31.**– 23-24. *Argyresthia dilectella* Z., male genitalia and signum of the female genitalia, 25-26. *A. abdominalis* Z., male genitalia and signum of the female genitalia, 27. *Coleophora variicornis* Toll, male genitalia, 28. *C. gredosella* Baldizzone, male genitalia. 29. *C. albidella* (D. & Schiff.), male genitalia, 30. *C. changaica* Rznk., female genitalia, 31. *C. nubivagella* Z., male genitalia.